

The Knowledge Bank at The Ohio State University
Ohio State Engineer

Title: Back Matter

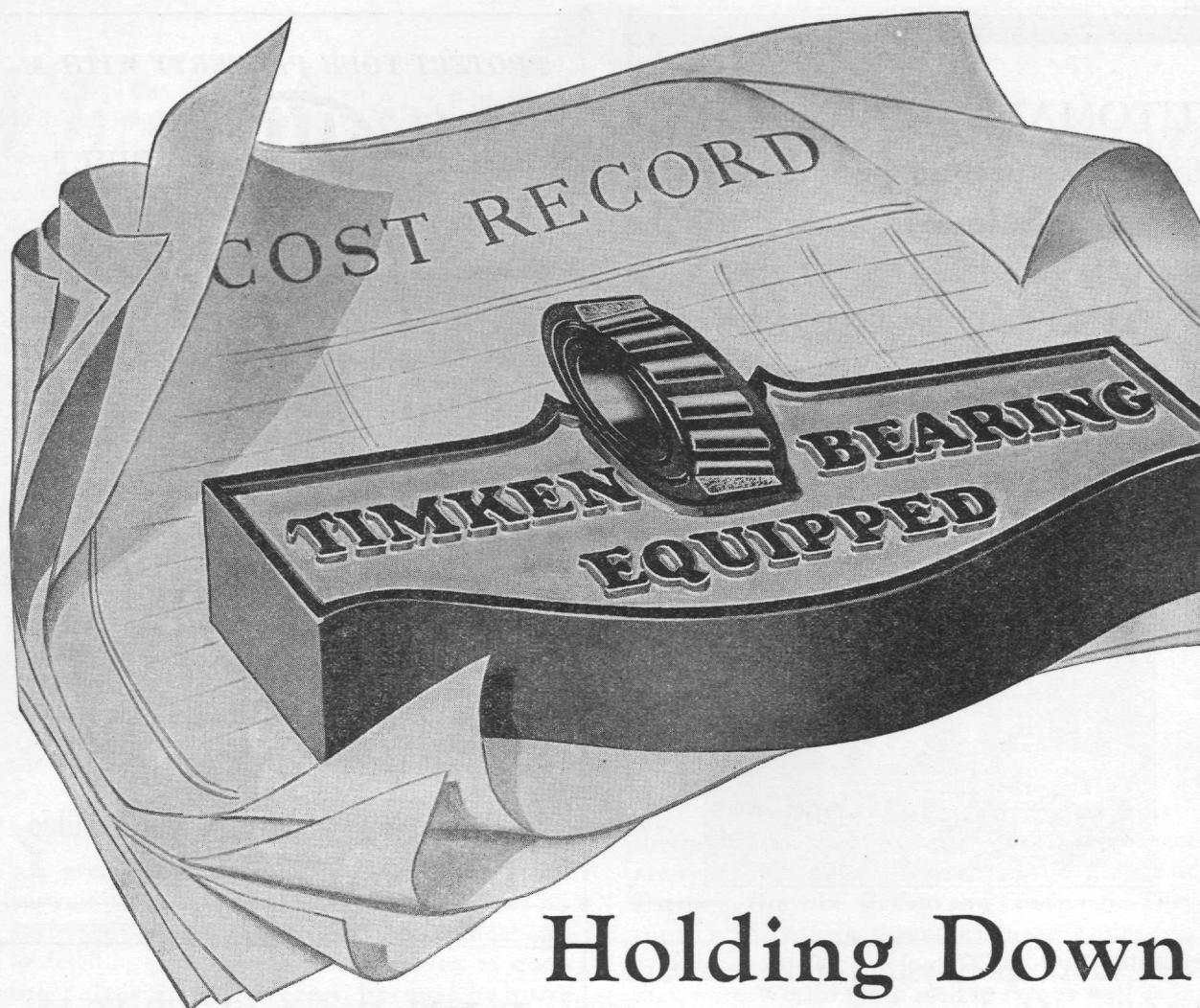
Issue Date: Mar-1930

Publisher: Ohio State University, College of Engineering

Citation: Ohio State Engineer, vol. 13, no. 5 (March, 1930), 27-29, 31-32.

URI: <http://hdl.handle.net/1811/34892>

Appears in Collections: [Ohio State Engineer: Volume 13, no. 5 \(March, 1930\)](#)



Holding Down Production Costs

Industry must be equipped to meet sterner competition. This means Industry must be "*Timken Bearing Equipped*," and to you student engineers, future guardians of the nation's industrial prosperity, will come the opportunity to still further broaden Timken's scope for economical production.

For Timken can carry this responsibility as no other bearing because Timken carries all loads capably—radial or thrust, or both. Lifting friction's load from power, production piles up into peaks. Maintenance cost swerves sharply into valleys. Lubricant expense clings closely to zero.

Exclusive with Timken are these distinct advantages—Timken tapered construction, Timken *POSITIVELY ALIGNED ROLLS* and Timken-made steel.

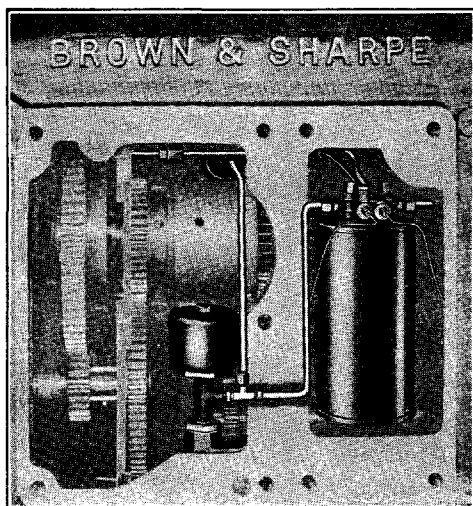
It is through these advantages that Timken cuts production costs ... through them "*Timken Bearing Equipped*" has become a universal guide for replacement of all types of industrial machinery—*wherever wheels and shafts turn*.

THE TIMKEN ROLLER BEARING COMPANY
CANTON, OHIO

TIMKEN Tapered
Roller **BEARINGS**

AUTOMATIC LUBRICATION

—for all units in the column, the driving clutch, and the knee mechanisms of the BROWN & SHARPE STANDARD MILLING MACHINES



THE lubrication system of the Standard Milling Machines is an important assurance of a long lifetime of efficient performance.

Filtered oil is automatically supplied to all bearings within the column and in the driving clutch by a plunger pump, assuring ample lubrication. A gauge on the side of the column indicates the pressure. A separate pump—cam driven—supplies oil to the knee mechanisms.

This assurance of plenty of oil to all moving parts increases the life of the machine and eliminates the uncertainties of hand oiling.

BROWN & SHARPE
BROWN & SHARPE MFG. CO.  PROVIDENCE, R. I., U. S. A.

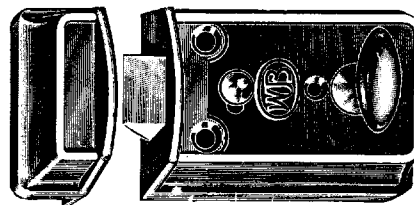
PROTECT YOUR PROPERTY WITH A

WELL



BUILT

Bronze Pin Cylinder, Night Latch



Applied to a door in half the time required for any other night latch

See HARRY DORSEY
1777 Summit Street

He will put one on in a jiffy

PRICE-- \$1.75 Single Lock
\$2.00 Lock Applied

Made by
The Wilson Bohannon Co. Marion, Ohio
Makers of Well Built Locks Since 1860

DINE AT THE SHIP CAFE

On Neil, between Tenth and
Eleventh Avenues



Week-day Meals, .35 and .40
Steak Dinner 5 to 8 p.m. . .50
Sunday Chicken Dinner . .75

Arrangements for banquets, bridge parties and special dinners may be made by telephone
Call UN. 4171

This Man *who calls on you*



YOU like his quiet enthusiasm, but you like even more his complete and competent answers to your questions. And you admire his assurance in making equipment recommendations, in detailing performance characteristics, in quoting prices and deliveries, because he quite evidently *knows* his subject.

What is his authority so thoroughly to commit his house? What is the basis of his positive knowledge? Just this . . . he is a Worthington post-graduate.

He and his colleagues, in Worthington engineering, production and sales, were recruited from the graduates of representative technical schools. They doffed their caps and gowns for overalls, laid down their

sheepskins for machinists' tools, and gladly spent many months in the Worthington plants at Harrison, Holyoke, Buffalo and Cincinnati. They took a thorough post-graduate course in Worthington Engineering. When they finished, they were Worthington men in fact as well as in name. It is significant that 76 out of every hundred of these candidates become permanent Worthington representatives.

* * *

. . . And it is important to you that the Worthington organization is imbued throughout with a spirit of precise engineering information, supplemented by a practical knowledge of exactly what Worthington products signify and what they are built to accomplish.

WORTHINGTON PRODUCTS

PUMPS
COMPRESSORS
CONDENSERS
and Auxiliaries
DIESEL and GAS ENGINES
FEEDWATER HEATERS
WATER, OIL and
GASOLINE METERS

Literature on Request

WORTHINGTON PUMP AND MACHINERY CORPORATION

Works: Harrison, N. J. Cincinnati, Ohio Buffalo, N. Y. Holyoke, Mass.

Executive Offices: 2 Park Avenue, New York, N. Y.

GENERAL OFFICES: HARRISON, N. J.

District Sales Offices:

ATLANTA	CHICAGO	DALLAS	EL PASO	LOS ANGELES	PHILADELPHIA	ST. PAUL	SEATTLE
BOSTON	CINCINNATI	DENVER	HOUSTON	NEW ORLEANS	PITTSBURGH	SALT LAKE CITY	TULSA
BUFFALO	CLEVELAND	DETROIT	KANSAS CITY	NEW YORK	ST. LOUIS	SAN FRANCISCO	WASHINGTON

Branch Offices or Representatives in Principal Cities of all Foreign Countries



WORTHINGTON



TIME—THAT TOUGH OLD TESTER—FINDS A FOE THAT FIGHTS HIM OFF

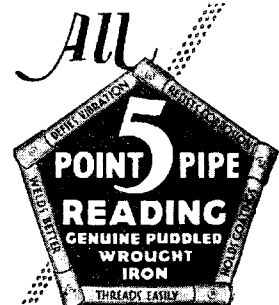
Many generations ago, Time—That Tough Old Tester—began his fight with genuine puddled wrought iron. Against that sturdy metal of which Reading 5-point pipe is made, Time first used his most potent weapon, corrosion.

Year after year after year, Time poured his corrosive mixtures over and through 5-point pipe trying to set in action the destruction which men call rust. But no loop-holes could Time find—filaments of silicious slag barred the way. Only pipe made of genuine puddled wrought iron has proved that it can thus fight off the test of Time—the only conclusive pipe test known.

Make your first cost of pipe the last cost, avoiding damaging leaks, by insisting on Reading genuine puddled wrought iron pipe.

READING IRON COMPANY, Reading, Pennsylvania

For Your Protection,
This Indented Spiral
Forever Marks



Science and Invention Have Never Found a Satisfactory Substitute for Genuine Puddled Wrought Iron

MARCH, 1930

NEW DEPARTURE BALL BEARINGS



NOTHING ROLLS LIKE A BALL

Before ball bearings became the accepted answer to problems of reducing friction, the story of transportation and industry was one of excessive wear—overheating—low speeds and waste of power—short machinery life—high up-keep expense, for ball bearings follow the natural law—that *nothing rolls like a ball*. For nothing is more friction free or nothing is stronger, mass for mass.

And because New Departure has carried the ball bearing to its highest state of development, it was inevitable that the makers and users of motor cars and all types of machinery should come to regard New Departure as a superior anti-friction device. In automobiles, electric motors, machine tools, farm machinery—New Departure Ball Bearings conquer friction, whatever the speeds or loads. They never need adjustment; they reduce power waste—and assure the utmost performance for any type of machinery.

THE NEW DEPARTURE MANUFACTURING CO., BRISTOL, CONN.

WORLD'S LARGEST BEARING MANUFACTURER

MARCH, 1930



IN THE STEEL FOUNDRY


THE oxy-acetylene process is of particular importance to the foundry industry. Its use has enabled designers and makers of castings to accomplish results otherwise impossible.

Oxy-acetylene cutting is recognized by steel foundrymen as superior to all other methods of riser removal. It is fast and economical. In addition it reduces to a marked degree the amount of machining necessary to the casting after the risers are cut off.


Reclamation of castings by oxwelding is a natural adjunct to riser cutting. It has enabled foundry operators to reduce rejects to a minimum. Castings so reclaimed are in all respects equal to those accepted upon first inspection.

Oxy-acetylene cutting and welding are routine production steps in the modern foundry.

From time to time the oxy-acetylene industry is in the market for technically trained men. It offers splendid opportunities for advancement.



JOHN F. WILCOX
Leland Stanford University 1921
Crew Soccer



VINCENT DRADDY
Manhattan College 1929
Football 3 years
Captain, 1928
Class Officer
President Letter Club

[[One of a series of advertisements featuring College men serving this industry.]]

The Linde Air Products Company—The Prest-O-Lite Company, Inc.,—Oxweld Acetylene Company—Union Carbide Sales Company—Manufacturers of supplies and equipment for oxy-acetylene welding and cutting.

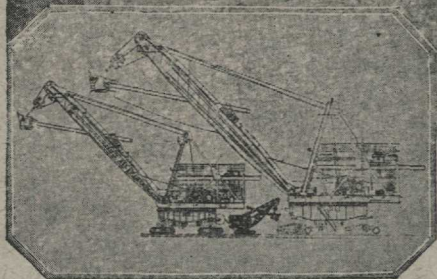
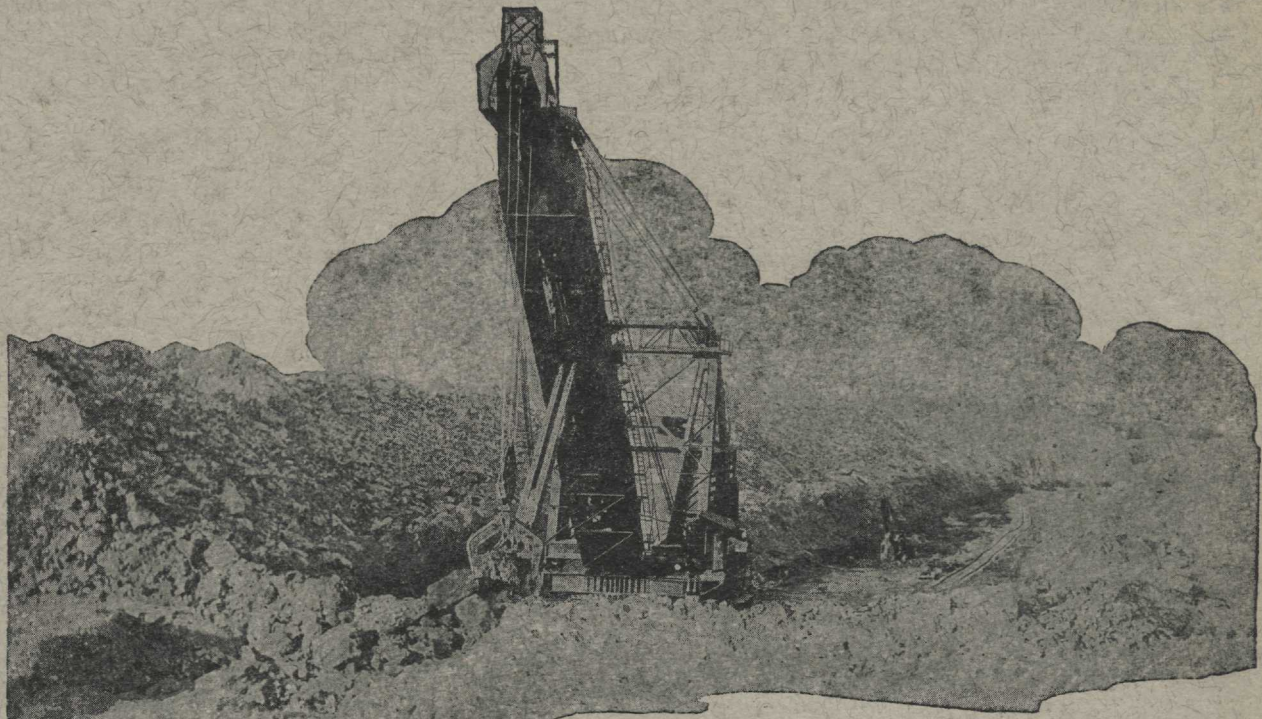
UNITS OF

UNION CARBIDE AND CARBON CORPORATION

30 East 42nd Street



New York, N. Y.



A comparison: the big shovel; the previous record size; and, in solid black, the standard-size excavating shovel

A One-man shovel 9 Stories High

ONE man easily controls the excavating operations of the world's largest shovel, now stripping coal at Duquoin, Illinois. Yet this shovel weighs as much as 20,000 men.

Its 15-cubic-yard dipper can pick up, at one bite, enough coal to heat a good-sized dwelling for a year (about 16 tons). The highest point on the shovel equals the height of a nine-story building.

General Electric, a leader in the application of electric power to industry, installed the electric equipment, aggregating 5500 horsepower.

The planning, testing, and distribution of electric equipment are largely the work of college men who are members of the General Electric organization.

GENERAL ELECTRIC



JOIN US IN THE GENERAL ELECTRIC HOUR, BROADCAST EVERY SATURDAY AT 9 P.M., E.S.T. ON A NATION-WIDE N.B.C. NETWORK

GENERAL ELECTRIC COMPANY, SCHENECTADY, NEW YORK 95-739DH